

Sunday, June 12, 2011

20:00–22:00	REGISTRATION & WELCOME DRINK – reception desk, <i>Hotel Lero</i> , Dubrovnik, I. Vojnovića 14
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Monday, June 13, 2011

8:30–9:30	REGISTRATION – IUC Inter–University Centre, Dubrovnik, don F. Bulića 4
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Lectures – IUC Inter–University Centre, Dubrovnik, don F. Bulića 4

9:30–10:10	OPENING CEREMONY – ADDRESSES <i>Krunoslav PISK</i> , Director of the Inter–University Centre, Dubrovnik <i>Mateo MILKOVIĆ</i> , President of the University of Dubrovnik <i>Nada BRUER–LJUBIŠIĆ</i> , Executive Secretary of the Inter–University Centre, Dubrovnik <i>Ante GRAOVAC</i> , Director of the MCC 2011
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LAUDATIO TO Sean P. McGLYNNChairman: Krunoslav **PISK**

10:10–10:30	<i>Leo KLASINC</i> PROFESSOR SEAN P. McGLYNN: 25+ YEARS WITH HIM AT LSU
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HONOUREE'S LECTUREChairman: Leo **KLASINC**

10:30–11:30	<i>Sean P. McGLYNN</i> SEVENTY YEARS OF SCIENCE: A RETROSPECTIVE
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11:30–12:00	 Coffee Break
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Chairman: Sean P. **McGLYNN**

12:00–12:20	<i>Krunoslav PISK</i> THE 300TH ANNIVERSARY OF THE BIRTH OF RUĐER JOSIP BOŠKOVIĆ A FAMOUS CROATIAN PHILOSOPHER AND SCIENTIST
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12:20–13:00	<i>Jerzy CIOSLOWSKI</i> SHELL MODEL OF ASSEMBLIES OF EQUICHARGED PARTICLES SUBJECT TO RADIAL CONFINING POTENTIALS
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Monday, June 13, 2011	
Lectures – IUC Inter–University Centre, Dubrovnik, don F. Bulića 4	
GRAPHS WITH APPLICATIONS	
Chairman: Jerzy CIOSLOWSKI	
15:00–15:40	<i>Stu WHITTINGTON</i> COMBINATORIAL MODELS IN POLYMER PHYSICS
15:40–16:20	<i>Gilles CAPOROSSI</i> AutoGraphiX III: OVERVIEW OF THE NEW SYSTEM
16:20–16:40	Break
Chairman: Stu WHITTINGTON	
16:40–17:10	<i>Yaser ALIZADEH, Ali IRANMANESH</i> AN ALGORITHM FOR COMPUTING SOME TOPOLOGICAL INDICES BASED ON DISTANCE
17:10–17:40	<i>Jelena SEDLAR, Damir VUKIČEVIĆ, Sarah Michele RAJTMAYER</i> ON ORDERING ALKANES BY MODIFIED ZAGREB INDICES
17:40–18:10	<i>Darko BUTINA</i> HISTORY OF 161 YEARS OF DAILY TEMPERATURE PATTERNS AT ARMAGH (UK) WEATHER STATION FROM THE THERMOMETER POINT OF VIEW
18:30	GUIDED CITY TOUR meeting point: in front of the Western Gate of the Old Town (PILE GATE)

Tuesday, June 14, 2011

Lectures – IUC Inter–University Centre, Dubrovnik, don F. Bulića 4

GRAPHS WITH APPLICATIONS

Chairman: Tomislav **DOŠLIĆ**

9:30–10:10	<i>Ali Reza ASHRAFI</i> DISTANCE-BASED TOPOLOGICAL INDICES OF FULLERENES
10:10–10:30	<i>Mahdieh AZARI, Ali IRANMANESH, Abolfazl TEHRANIAN</i> COMPUTATION OF TWO TOPOLOGICAL INDICES AND THEIR CORRESPONDING POLYNOMIALS FOR SOME GRAPH OPERATIONS
10:30–10:50	<i>Afshin BEHMARAM, Hassan YOUSEFI–AZARI, Ali Reza ASHRAFI</i> ON THE NUMBER OF SMALL PATHS, INDEPENDENT SETS AND MATCHINGS OF FULLERENES
10:50–11:20	 Coffee Break

Chairman: Ali Reza **ASHRAFI**

11:20–11:40	<i>Sarah Michele RAJTMAYER, Damir VUKIĆEVIĆ</i> A FAST APPROACH TO THE DETECTION OF ALL–PURPOSE HUBS AND COMMUNITIES IN COMPLEX NETWORKS
11:40–12:00	<i>Snježana MAJSTOROVIĆ, Antoaneta KLOBUČAR</i> <i>k</i> –DOMINATION ON HEXAGONAL CHAIN CACTI

Course – IUC Inter–University Centre, Dubrovnik, don F. Bulića 4

Chairman: Anthony J. **GUTTMANN**

15:00–15:40	<i>Stu WHITTINGTON</i> SELF-AVOIDING WALKS – <i>Part I</i>
15:40–16:00	Break
16:00–16:40	<i>Stu WHITTINGTON</i> SELF-AVOIDING WALKS – <i>Part II</i>
20:30	Sarah Michele Rajtmayer – Flute Concert <i>School of Arts Luka Sorkočević</i> Strossmayerova 3, Dubrovnik

<i>Wednesday, June 15, 2011</i>	
<i>Lectures – IUC</i> Inter–University Centre, Dubrovnik, don F. Bulića 4	
MATHEMATICS WITH APPLICATIONS	
Chairman: Svetlan FERETIĆ	
9:30–10:10	<i>Dragutin SVRTAN</i> HYPERBOLIC ANALOG OF THE EASTWOOD–NORBURY FORMULA FOR ATIYAH DETERMINANT
10:10–10:50	<i>Anthony J. GUTTMANN</i> LATTICE GREEN FUNCTIONS AND SPANNING TREES
10:50–11:20	 Coffee Break
<i>Course – IUC</i> Inter–University Centre, Dubrovnik, don F. Bulića 4	
Chairman: Dragutin SVRTAN	
11:20–12:00	<i>Anthony J. GUTTMANN</i> SOLVABLE SUBSETS OF SELF–AVOIDING WALKS AND POLYGONS – <i>Part I</i>
12:00–12:20	 Coffee Break
12:20–13:00	<i>Anthony J. GUTTMANN</i> SOLVABLE SUBSETS OF SELF–AVOIDING WALKS AND POLYGONS – <i>Part II</i>

Wednesday, June 15, 2011

Posters – IUC Inter–University Centre, Dubrovnik, don F. Bulića 4

Moderator: Damir VUKIČEVIĆ

Posters given below are exhibited from **15:00**, and are open for discussion till **17:00**.

Mehdi ALAEIYAN, Rasoul MOJARAD, Jafar ASADPOUR

A NEW METHOD FOR COMPUTING PI AND SZEGED INDICES OF EXTENDED BRIDGE GRAPH AND ITS APPLICATION IN NANOSTRUCTURES

Gholam Hossein FATH-TABAR
ON THE SYMMETRY OF (3,6)-FULLERENES

Petra GALER, Berta KOŠMRLJ, Boris ŠKET

PHOTOPHYSICAL AND PHOTOCHEMICAL PROPERTIES OF METHOXY CURCUMINOID AND THEIR BF₂-DERIVATIVES

Leila JADIDOLSLAM, Ali IRANMANESH

THE HOSOYA POLYNOMIAL OF A TUC₄C₈(S) NANOTORUS

Abdelmalek KHORIEF NACEREDDINE, Abdelhafid DJEROUROU

A DFT STUDY OF THE SOLVENT EFFECTS ON THE MECHANISM, REGIO- AND STEREOSELECTIVITIES OF 1,3-DIPOLEAR CYCLOADDITION OF C-DIETHOXYPHOSPHORYL-N-METHYLNITRONE WITH SUBSTITUTED ALKENES

Nataša KOVAČEVIĆ, Anton KOKALJ

DFT STUDY OF INTERACTION OF AZOLE CORROSION INHIBITORS WITH Cu(111) SURFACE

Majid MONEM ZADEH, Aghileh EBRAHIMI

BFFT APPROACH OF U(I) MASSIVE BOSON IN NON-COMMUTATIVE SPACE

Iulia PAUSESCU, Raluca POP, Adriana MARIESCU, Mihai MEDELEANU

ANTHOCYANINES ANTIOXIDANT ACTIVITY BY COMPUTATIONAL METHODS

Slavko RADENKOVIĆ, Patrick BULTINCK

RING CURRENTS IN POLYCYCLIC SODIUM CLUSTERS

Nenad RAOS, Ante MILIČEVIĆ

A MODEL TO ESTIMATE STABILITY CONSTANTS OF AMINO-ACID CHELATES WITH Cu(II) AT DIFFERENT IONIC STRENGTHS

Masoud SALAVATI-NIASARI

SYNTHESIS OF COBALT SULFIDE NANOPARTICLES BY SIMPLE HYDROTHERMAL METHOD

Milena SOŠIĆ

COMPUTING CONSTANTS IN SOME SUBSPACES OF FREE UNITAL ASSOCIATIVE COMPLEX ALGEBRA

Ivana ŠAGUD, Fabio FARAGUNA, Željko MARINIĆ, Marija ŠINDLER-KULYK

PHOTOCHEMICAL APPROACH TO NAPHTHOXAZOLES AND FUSED HETEROBENZOXAZOLES FROM 5-(PHENYL/HETEROARYLETHENYL)OXAZOLES

Mehdi TAHERI, Gholam Hossein FATH-TABAR

COMPUTING THE ENERGY OF TWO TYPES OF DENDRIMERS

Thursday, June 16, 2011	
Course – IUC Inter–University Centre, Dubrovnik, don F. Bulića 4	
Chairman: Veljko ZLATIĆ	
9:30–10:10	<i>Robert GLASER, Avital STEINBERG</i> IDENTICAL, SIMILAR, OR DIFFERENT: QUANTIFICATION OF PSEUDOSYMMETRY RELATIONSHIPS IN MOLECULAR CRYSTALS – <i>Part I</i>
10:10–10:20	Break
10:20–11:00	<i>Robert GLASER, Avital STEINBERG</i> IDENTICAL, SIMILAR, OR DIFFERENT: QUANTIFICATION OF PSEUDOSYMMETRY RELATIONSHIPS IN MOLECULAR CRYSTALS – <i>Part II</i>
12:30	EXCURSION – details will be given on the spot do not forget your tickets
	CONFERENCE DINNER – info on place and time will be given on the spot



do not forget
your tickets

Friday, June 17, 2011

Lectures – IUC Inter–University Centre, Dubrovnik, don F. Bulića 4

GRAPHS WITH APPLICATIONS

Chairman: Mihai V. PUTZ

9:30–10:00	<i>Modjtaba GHORBANI</i> A NOTE ON VERTEX TRANSITIVE GRAPHS
10:00–10:40	<i>Svetlan FERETIĆ</i> GENERATING FUNCTIONS FOR TRI–WALL POLYGONS
10:40–11:00	 Coffee Break
Chairman: Dražen VIKIĆ–TOPIĆ	
11:00–11:40	<i>István LÁSZLÓ, Miklós KERTÉSZ, Brad SLEPETZ</i> SIMULATION OF LARGE MULTI–ATOM VACANCIES IN DIAMOND
11:40–12:20	<i>Mihai V. PUTZ</i> ELECTRONEGATIVITY AND CHEMICAL HARDNESS: RELIABLE QUANTUM TOOLS FOR CHEMICAL STRUCTURE AND REACTIVITY
12:20–13:00	<i>Veljko ZLATIĆ</i> ENHANCEMENT OF THERMAL TRANSPORT IN CORRELATED MULTILAYERS
13:00	 IUC – RECEPTION IUC Inter–University Centre, Dubrovnik, don F. Bulića 4

GRAPHS WITH APPLICATIONS

Chairman: István LÁSZLÓ

15:00–15:30	<i>Mohammad A. IRANMANESH, Lida ZABOLIZADEH</i> ON SOME TOPOLOGICAL INDICES AND RELATED POLYNOMIALS FOR A FAMILY OF DENDRIMERS
15:30–16:00	<i>Ali MADANSHEKAF</i> ATOM–BOND CONNECTIVITY INDEX OF SOME NANOSTARS

Saturday, June 18, 2011

Lectures – IUC Inter–University Centre, Dubrovnik, don F. Bulića 4

THEORY & APPLICATIONS

Chairman: Ali IRANMANESH

9:00–9:30	<i>Anita ŠIMIĆ, Fred BARET, Jean–F. HANOCQ, Remi LECERF, Fernando de la CRUZ TERCERO, Aleixandre VERGER</i> APPROACH FOR VALIDATION OF GEOLAND2 PRODUCTS USING PASTiS 57 (AUTONOMOUS LIGHT SENSORS FOR PAI CONTINUOUS MONITORING): BIOPHYSICAL PRODUCTS TRENDS OVER EUROPE
9:30–9:50	<i>Tomislav CVITAŠ, Leo KLASINC, Brunislav MATASOVIĆ</i> PHOTOCHEMICAL POLLUTION LEVEL ASSESSMENT OVER THE UK BASED ON OZONE DATA 1990–2006
9:50–10:20	<i>Urban BREN, Matej PRAPROTKIĆ, Matevž BREN, Dušanka JANEŽIĆ</i> ROTATIONAL MOTION AND THE SOLVATION PROPERTIES OF WATER – IMPLICATIONS FOR THE USE OF MICROWAVE IRRADIATION
10:20–10:50	<i>Jane BOGDANOV, Bogdan BOGDANOV</i> MOMENT OF INERTIA OF CHIRAL MOLECULES AS A PARAMETER FOR CALCULATING OPTICAL ROTATION: CONFORMATIONAL EFFECTS IN 2-SUBSTITUTED BUTANES
10:50–11:10	 Coffee Break

GRAPHS WITH APPLICATIONS

Chairman: Urban BREN

11:10–11:40	<i>Tomislav DOŠLIĆ</i> COUNTING CONJUGATED CIRCUITS IN BENZENOID CHAINS
11:40–12:10	<i>Primož LUKŠIĆ</i> FAMILIES OF DISTANCE–BALANCED GRAPHS
12:10–12:20	CLOSING OF THE MEETING
12:20	 FAREWELL DRINK IUC Inter–University Centre, Dubrovnik, don F. Bulića 4